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FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007

=> file medline, uspatful, dgene, embase, wpids, biosis		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'MEDLINE' ENTERED AT 16:59:41 ON 22 FEB 2007

FILE 'USPATFULL' ENTERED AT 16:59:41 ON 22 FEB 2007  
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=> s (methanol-utilizing bacterium)  
L1 79 (METHANOL-UTILIZING BACTERIUM)

=> s l1 and (entner-doudoroff pathway)  
L2 1 L1 AND (ENTNER-DOUDOROFF PATHWAY)

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 1 USPATFULL on STN  
TI Method for producing L-amino acid using methylotroph  
AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL  
TITLE: Method for producing L-amino acid using methylotroph  
INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

NUMBER	DATE
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*Apparent*

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS	4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS	5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS	6	NOV 10	CA/Caplus F-Term thesaurus enhanced
NEWS	7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS	8	NOV 20	CA/Caplus to MARPAT accession number crossover limit increased to 50,000
NEWS	9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS	10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS	11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS	12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS	13	DEC 18	CA/Caplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS	14	DEC 18	CA/Caplus patent kind codes updated
NEWS	15	DEC 18	MARPAT to CA/Caplus accession number crossover limit increased to 50,000
NEWS	16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS	17	DEC 27	CA/Caplus enhanced with more pre-1907 records
NEWS	18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS	19	JAN 16	CA/Caplus Company Name Thesaurus enhanced and reloaded
NEWS	20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS	21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS	22	JAN 22	CA/Caplus updated with revised CAS roles
NEWS	23	JAN 22	CA/Caplus enhanced with patent applications from India
NEWS	24	JAN 29	PHAR reloaded with new search and display fields
NEWS	25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS	26	FEB 13	CASREACT coverage to be extended
NEWS	27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS	28	Feb 15	RUSSIAPAT enhanced with pre-1994 records

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

PRIORITY INFORMATION: JP 2002-336346 20021120  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL  
PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W.,  
WASHINGTON, DC, 20036  
NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 1528  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT  
16:59:41 ON 22 FEB 2007

L1 79 S (METHANOL-UTILIZING BACTERIUM)  
L2 1 S L1 AND (ENTNER-DOUDOROFF PATHWAY)

=> s l1 and method  
L3 16 L1 AND METHOD

=> s l1 and production  
L4 30 L1 AND PRODUCTION

=> s l3 and l4  
L5 11 L3 AND L4

=> s l5 and (modified)  
L6 4 L5 AND (MODIFIED)

=> d l6 ti abs ibib tot

L6 ANSWER 1 OF 4 USPATFULL on STN  
TI Novel lysine decarboxylase gene and method for producing  
L-lysine  
AB A Methylophilus bacterium in which a gene having a nucleotide sequence  
identical to a DNA coding for a protein defined in the following (A) or  
(B) or a gene having homology to the DNA in such a degree that  
homologous recombination with the DNA occurs is disrupted, thereby  
expression of the gene is suppressed and the intracellular lysine  
decarboxylase activity is reduced or eliminated is cultured in a medium  
containing methanol as a major carbon source to produce and accumulate  
L-lysine in culture and the L-lysine is collected from the culture: (A)  
a protein which has the amino acid sequence of SEQ ID NO: 4; (B) a  
protein which has the amino acid sequence of SEQ ID NO: 4 including  
substitution, deletion, insertion or addition of one or several amino  
acid residues and has a lysine decarboxylase activity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:292227 USPATFULL  
TITLE: Novel lysine decarboxylase gene and method  
for producing L-lysine  
INVENTOR(S): Hirano, Seiko, Kawasaki-shi, JAPAN  
Yasueda, Hisashi, Kawasaki-shi, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004229311	A1	20041118
APPLICATION INFO.:	US 2004-784986	A1	20040225 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-47185	20030225
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1576	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
L6 ANSWER 2 OF 4 USPATFULL on STN		
TI	Method for producing L-lysine using methanol- utilizing bacterium	
AB	L-Lysine is produced by culturing a methanol-utilizing bacterium which requires L-methionine for its growth and has an ability to produce L-lysine in a medium containing methanol as a main carbon source to produce and accumulate L-lysine in culture and collecting the L-lysine from the culture.	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:273798 USPATFULL

TITLE: Method for producing L-lysine using  
methanol-utilizing bacterium

INVENTOR(S): Asahara, Takayuki, Kawasaki, JAPAN  
Hirano, Seiko, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004214296	A1	20041028
APPLICATION INFO.:	US 2004-760283	A1	20040121 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-20513	20030129
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1429	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
L6 ANSWER 3 OF 4 USPATFULL on STN		
TI	Genes involved in polysaccharide production and utilization thereof	
AB	An ability of a methanol-utilizing bacterium to produce a polysaccharide is improved or suppressed using a DNA encoding a protein selected from the group consisting of:	
	(A) a protein which has the amino acid sequence of SEQ ID NO: 2;	
	(B) a variant of a protein which has the amino acid sequence of SEQ ID NO: 2 comprising substitution, deletion, insertion or addition of one or several amino acid residues and has an activity for producing a polysaccharide;	
	(C) a protein which has the amino acid sequence of SEQ ID NO: 4; and	

(D) a variant of a protein which has the amino acid sequence of SEQ ID NO: 4 comprising substitution, deletion, insertion or addition of one or several amino acid residues and has an activity for producing a polysaccharide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:215462 USPATFULL  
TITLE: Genes involved in polysaccharide production  
and utilization thereof  
INVENTOR(S): Asahara, Takayuki, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004166570	A1	20040826
APPLICATION INFO.:	US 2004-772271	A1	20040206 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-32075	20030210
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1180	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 4 USPATFULL on STN  
TI Method for producing L-amino acid using methylotroph  
AB The present invention describes a method for producing an  
L-amino acid comprising culturing a microorganism having an ability to  
produce an L-amino acid in a medium, whereby the L-amino acid  
accumulates in the medium, and collecting the L-amino acid from the  
medium, whereby said microorganism comprises a methanol-  
utilizing bacterium having the Entner-Doudoroff  
pathway in which 6-phosphogluconate dehydratase activity and/or  
2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL  
TITLE: Method for producing L-amino acid using  
methylotroph  
INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336346	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	

LINE COUNT: 1528  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 16:58:28 ON 22 FEB 2007)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOSIS' ENTERED AT  
16:59:41 ON 22 FEB 2007

L1 79 S (METHANOL-UTILIZING BACTERIUM)  
L2 1 S L1 AND (ENTNER-DOUDOROFF PATHWAY)  
L3 16 S L1 AND METHOD  
L4 30 S L1 AND PRODUCTION  
L5 11 S L3 AND L4  
L6 4 S L5 AND (MODIFIED)

=> s l4 and(increase the copy number)

5 FILES SEARCHED...

L7 1 L4 AND(INCREASE THE COPY NUMBER)

=> d l7 ti abs ibib tot

L7 ANSWER 1 OF 1 USPATFULL on STN

TI Method for producing L-amino acid using methylotroph

AB The present invention describes a method for producing an L-amino acid comprising culturing a microorganism having an ability to produce an L-amino acid in a medium, whereby the L-amino acid accumulates in the medium, and collecting the L-amino acid from the medium, whereby said microorganism comprises a methanol-utilizing bacterium having the Entner-Doudoroff pathway in which 6-phosphogluconate dehydratase activity and/or 2-keto-3-dexoy-6-phosphogluconate aldolase activity is enhanced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:184552 USPATFULL

TITLE: Method for producing L-amino acid using methylotroph

INVENTOR(S): Gunji, Yoshiya, Kawasaki, JAPAN  
Yasueda, Hisashi, Kawasaki, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004142435	A1	20040722
APPLICATION INFO.:	US 2003-716473	A1	20031120 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2002-336346	20021120
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	AJINOMOTO CORPORATE SERVICES, LLC, INTELLECTUAL PROPERTY DEPARTMENT, 1120 CONNECTICUT AVE., N.W., WASHINGTON, DC, 20036	

NUMBER OF CLAIMS: 6  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 1528

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s l3 and (increase copy number)

L8 0 L3 AND (INCREASE COPY NUMBER)

## Refine Search

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### Search Results -

Terms	Documents
L6 and L1	0

Database:

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 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L7







### Search History

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#### Set Name Query

side by side

#### Hit Count Set Name

result set

*DB=USPT; PLUR=YES; OP=OR*

<u>L7</u>	L6 and l1	0	<u>L7</u>
<u>L6</u>	L5 and (increase copy number)	2177	<u>L6</u>
<u>L5</u>	L4 and (L-valine or l-isoleucine, or l-lysine)	2310	<u>L5</u>
<u>L4</u>	L3 and (L-amino acid production)	90342	<u>L4</u>
<u>L3</u>	(methanol-utilizing bacterium)	107040	<u>L3</u>

*DB=PGPB; PLUR=YES; OP=OR*

<u>L2</u>	L1 and (methanol-utilizing bacterium)	7	<u>L2</u>
<u>L1</u>	gunji.in.	110	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L1 and (methanol-utilizing bacterium)	7

**Database:**

US Pre-Grant Publication Full-Text Database  
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IBM Technical Disclosure Bulletins

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L2

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**Set Name Query**

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**Hit Count Set Name**

result set

*DB=PGPB; PLUR=YES; OP=OR*L2   L1 and (methanol-utilizing bacterium)

7

L2L1   gunji.in.

110

L1

END OF SEARCH HISTORY



## Hit List

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20060019355 A1

L2: Entry 1 of 7

File: PGPB

Jan 26, 2006

PGPUB-DOCUMENT-NUMBER: 20060019355

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060019355 A1

TITLE: L-Amino acid-producing microorganism and method for producing L-amino acid

PUBLICATION-DATE: January 26, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ueda; Takuji	Kawasaki-shi		JP
Nakai; Yuta	Kawasaki-shi		JP
<u>Gunji</u> ; Yoshiya	Kawasaki-shi		JP
Takikawa; Rie	Kawasaki-shi		JP
Joe; Yuji	Kawasaki-shi		JP

US-CL-CURRENT: 435/106; 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 20050176121 A1

L2: Entry 2 of 7

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050176121

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050176121 A1

TITLE: Method for producing alcohol by using microorganism

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Takeshita, Ryo	Kawasaki-shi		JP
Yasueda, Hisashi	Kawasaki-shi		JP
<u>Gunji</u> , Yoshiya	Kawasaki-shi		JP

US-CL-CURRENT: [435/155](#); [435/170](#), [435/183](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20050003495 A1

L2: Entry 3 of 7

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050003495

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050003495 A1

TITLE: Method for producing L-lysine or L-arginine by using methanol-assimilating  
bacterium

PUBLICATION-DATE: January 6, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: [435/115](#); [435/252.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20040146974 A1

L2: Entry 4 of 7

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146974

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040146974 A1

TITLE: Method for producing L-amino acid using methylotroph

PUBLICATION-DATE: July 29, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: [435/69.1](#); [435/115](#), [435/193](#), [435/252.33](#), [435/320.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 20040142435 A1

L2: Entry 5 of 7

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142435  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040142435 A1

TITLE: Method for producing L-amino acid using methylotroph

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki		JP
Yasueda, Hisashi	Kawasaki		JP

US-CL-CURRENT: 435/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 20030124687 A1

L2: Entry 6 of 7

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124687  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030124687 A1

TITLE: Method for producing L-lysine or L-arginine by using methanol assimilating bacterium

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Gunji</u> , Yoshiya	Kawasaki-shi		JP
Yasueda, Hisashi	Kawasaki-shi		JP

US-CL-CURRENT: 435/115; 435/252.3, 435/320.1, 435/69.1, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20030113899 A1

L2: Entry 7 of 7

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113899  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030113899 A1

TITLE: Method for producing L-arginine

PUBLICATION-DATE: June 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yamaguchi, Mikiko	Kawasaki-shi		JP
Ito, Hisao	Kawasaki-shi		JP
Gunji, Yoshiya	Kawasaki-shi		JP
Yasueda, Hisashi	Kawasaki-shi		JP

US-CL-CURRENT: [435/252.1](#); [435/252.33](#), [435/252.8](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Terms	Documents
L1 and (methanol-utilizing bacterium)	7

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